**Application No.:** 10/609,433

Office Action Dated: March 27, 2007

This listing of claims will replace all prior versions, and listings, of claims in the application.

## **Listing of Claims:**

1. (Currently Amended) A method for reducing bus traversal in a media server comprising a host processor, a network interface, and a storage subsystem comprising one or more storage devices, the host processor and network interface being connected to a first input-output bus, the storage subsystem being connected to a second input-output bus, the first and second input-output buses being connected via a controller, the method comprising:

providing a hot-swappable adaptable cache inside said media server, said adaptable cache hot-swappably connected to the first input-output bus, said adaptable cache comprising a data interface, core logic configured to dynamically alter its operating characteristics by modification of a caching rule to account for asset request frequency without disconnecting said adaptable cache from the media server, and electronic storage media;

receiving a request for a media asset via a network, said request being received by the network interface;

receiving the request at the adaptable cache;

processing the request by the adaptable cache, wherein if the requested media asset is found on the electronic storage media, the media asset is returned to the user via the first bus and not the second bus, and wherein if the requested media asset is not found on the electronic storage media, the media asset is accessed from the storage subsystem and returned to the user via the second bus and first bus, and;

wherein the adaptable cache monitors requests for media assets, determines that select media assets should be cached, transfers said select media assets from one or more storage devices to the electronic storage media, and notifies a requesting application that the adaptable cache can accept future requests for said select media assets.

- 2. (Original) The method of claim 1, wherein the request is received at the adaptable cache via the host processor.
- 3. (Original) The method of claim 1, wherein the request is received at the adaptable cache directly from the network interface.

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4. (Original) The method of claim 1, wherein the adaptable cache is integrated with the network interface.

5. (Original) The method of claim 1, wherein the adaptable cache is integrated in the controller.

## 6-7. (Canceled)

- 8. (Currently Amended) The method of <u>claim 6</u> <u>claim 1</u>, wherein the adaptable cache monitors requests for media assets and if it is determined that the media should be cached, the adaptable cache notifies the storage subsystem to disregard requests to deliver the media.
- 9. (Original) The method of claim 1, wherein if the requested media asset is not found on the electronic storage media, the adaptable cache stores the requested media asset on the electronic storage media.
- 10. (Original) The method of claim 1, wherein the adaptable cache integrates into the media server via an expansion card slot.
- 11. (Original) The method of claim 1, wherein the adaptable cache integrates with native communications busses and protocols existing on the media server.
- 12. (Original) The method of claim 1, wherein the adaptable cache utilizes the busses and protocols existing on the media server.
- 13. (Currently Amended) A method for improving transactional performance in a media server comprising a host processor, a network interface, and a storage subsystem comprising one or more storage devices, the host processor and network interface being connected to a first input-output bus, the storage subsystem being connected to a second input-output bus, the first and second input-output buses being connected via a controller, the method comprising:

providing a hot-swappable adaptable cache inside said media server, said adaptable cache hot-swappably connected to the second input-output bus, said adaptable cache comprising a data interface, a core logic, and electronic storage media, and enabled to:

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dynamically alter its operating characteristics by modification of a caching rule to account for asset request frequency without disconnecting said adaptable cache from the media server;

determine whether to retrieve and store data from the storage subsystem based on the algorithms and/or heuristics;

alter the storage size of the electronic storage media without disrupting the operation of the media server; and

retrieve data from the storage subsystem using its own data interface; receiving a request for a media asset via a network, said request being received by the network interface;

receiving the request at the adaptable cache;

processing the request by the adaptable cache, wherein if the requested media asset is found on the electronic storage media, the media asset is returned to the user without accessing the one or more storage devices on the storage subsystem, and wherein if the requested media asset is not found on the electronic storage media, the media asset is accessed from one or more storage devices on the storage subsystem and returned to the user; and

wherein the adaptable cache monitors requests for media assets, determines that select media assets should be cached, transfers said select media assets from one or more storage devices to the electronic storage media, and notifies a requesting application that the adaptable cache can accept future requests for said select media assets.

- 14. (Original) The method of claim 13, wherein the request is received at the adaptable cache via the second input-output bus.
- 15. (Original) The method of claim 13, wherein the adaptable cache integrates into the media server via an expansion card slot.
- 16. (Original) The method of claim 13, wherein if the requested media asset is not found on the electronic storage media, the adaptable cache stores the requested media asset on the electronic storage media.

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17-18. (Canceled)

19. (Currently Amended) The method of <u>claim 17 claim 13</u>, wherein the adaptable cache monitors requests for media assets and if it is determined that the media should be cached, the adaptable cache notifies the storage subsystem to disregard requests to deliver the media.

- 20. (Original) The method of claim 13, wherein the adaptable cache integrates with native communications busses and protocols existing on the media server.
- 21. (Original) The method of claim 13, wherein the adaptable cache utilizes the busses and protocols existing on the media server.
- 22. (Currently Amended) A system for facilitating delivery of media resources, comprising:

a media server comprising a host processor, a network interface, and a storage subsystem comprising one or more storage devices, the host processor and network interface being connected to a first input-output bus, the storage subsystem being connected to a second input-output bus, the first and second input-output buses being connected via a controller;

a hot swappable adaptable cache inside said media server, said adaptable cache hotswappably connected to an input-output bus comprising a data interface, core logic
configured to dynamically alter its operating characteristics by modification of a caching rule
to account for asset request frequency without disconnecting said adaptable cache from the
media server, and electronic storage media, the adaptable cache being adapted to store data
on the electronic storage media, and further being adapted to receive and process requests for
media assets, wherein if the requested media asset is found on the electronic storage media,
the media asset is returned to a requestor via one or more I/O buses, and wherein if the
requested media asset is not found on the electronic storage media, the media asset is
accessed from the storage subsystem and returned to the requestor, and wherein said
adaptable cache is further adapted to monitor requests for media assets, determine that select
media assets should be cached, transfer said select media assets from one or more storage

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devices to the electronic storage media, and notify a requesting application that the adaptable cache can accept future requests for said select media assets.

23. (Currently Amended) A method for simulating passive monitoring of a bus by a first component in a media server, comprising:

identifying a second component that transmits messages to a third component, said messages desired to be monitored by the first component, wherein said first component comprises a hot-swappable adaptable cache inside a media server, said adaptable cache hot-swappably connected to a bus inside said media server, said adaptable cache comprising a data interface, a core logic configured to dynamically alter its operating characteristics by modification of a caching rule to account for asset request frequency without disconnecting said adaptable cache from the media server, and electronic storage media; and

adapting the second component to address the message to both the third component and the first component; and

wherein the adaptable cache monitors requests for media assets, determines that select media assets should be cached, transfers said select media assets from one or more storage devices to the electronic storage media, and notifies a requesting application that the adaptable cache can accept future requests for said select media assets.